

PATENT

MANUFACTURE OF CONTINUOUS STRAND MATS

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ABSTRACT

The invention relates to an installation and a method of preparing a continuous strand mat, the strands coming from at least one roving thrown onto a conveyor belt, in which method:

- at least one roving package supported on a spindle is paid out via the outside, the rate of said pay-out being imposed by a motor acting directly on the roving package so that the linear speed of the paid-out roving is constant; then

- the roving passes through a nozzle, by passing through an entry and then an exit of the nozzle, said nozzle being also provided with a transverse injection of at least one fluid, said fluid being mainly directed toward the exit of the nozzle, inducing a tension toward the bottom of the roving, said fluid also dividing the roving; and then

- the strands forming the roving are thrown in an oscillatory movement onto said conveyor belt.

The invention allows continuous strand mats to be manufactured at high speed, with little or even no roving breakage, owing to the fact that the roving is subjected to only a slight tension, which is given to it at the nozzle by the dividing fluid.

(Figure 1)